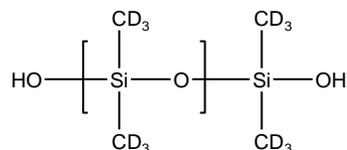


Sample Name: Deuterated Polydimethyl siloxane; Disilanol terminated

Sample #: P41878F-dPDMS

Structure:



Composition:

Mn x 10 ³	PDI
4.0	1.09

Synthesis Procedure:

The polymerization of the Deuterated Polydimethyl siloxane; Disilanol terminated was initiated with CF₃SO₃H Cationic polymerization process.

Characterization:

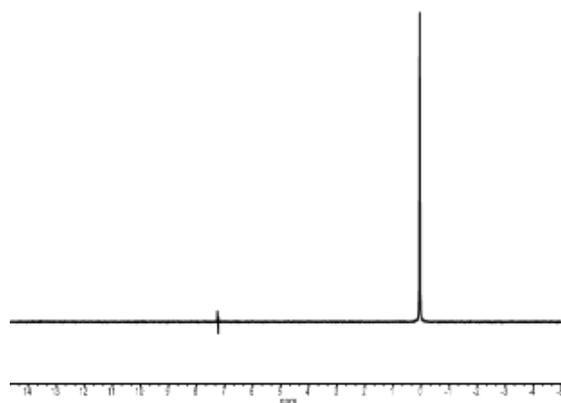
The product was characterized by size exclusion chromatography (SEC) and D NMR. The following table is a listing of the conditions used for SEC analysis:

Parameter	Condition Used
Dissolution Solvent	Toluene
Sample Concentration	20 to 40 mg/mL
Filtration	0.2 μm Nylon syringe filter
Mobile Solvent	Toluene
Columns	2 X Malvern T3000
Flow Rate	1.0 mL/min
System Back Pressure	800 psi
Injection Volume	100 μL
Column Temperature	30°C
Detector Temperature	30°C

Solubility:

Deuterated Polydimethyl siloxane is soluble in hexane, toluene, cyclohexane, THF and chloroform but precipitates from methanol and ethanol.

D NMR spectrum of the Sample:

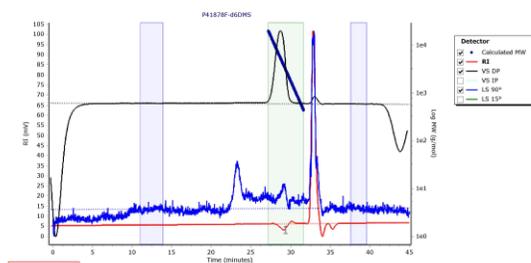


SEC elugram of the Sample:

Agilent GPC/SEC Software

P41878F-d6DMS

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	3714	3962	4329	4753	5216	4753	1.092